

Claims

It is claimed:

1. Tanning module with a housing, a tridimensional reflector disposed in the housing, and at least one discoid radiation filter, wherein the at least one radiation filter covers the radiation emitting area of the reflector and is disposed on a first side of the housing, at least one opening being provided in the reflector for the installation and electrical connection of a tanning radiator, and the reflector having its maximum cross section in the plane of the radiation emitting area, characterized in that the housing (1) is configured on a second side opposite the radiation filter (2, 21, 2b) in the form of a quadrilateral pyramid (1a) with a rectangular base and flattened pyramid apex (1b) and that the rectangular base faces in the direction of the at least one radiation filter (2, 2a, 2b).
2. Tanning module according to claim 1, characterized in that the at least one radiation filter (2, 2a, 2b) is aligned parallel to the radiation emitting area of the reflector (3).
3. Tanning module according to either of claims 1 to 2, characterized in that the base of the pyramid is aligned parallel to the at least one radiation filter (2, 2a, 2b).
4. Tanning module according to any one of claims 1 to 3, characterized in that the flattened pyramid apex (1b) is formed by a planar part of the housing wall.
5. Tanning module according to claim 4, characterized in that the planar housing wall portion is aligned parallel to the base of the pyramid (1a).
6. Tanning module according to any one of claims 1 to 5, characterized in that the

flattened pyramid apex (1b) is formed by a vaulted housing wall portion.

7. Tanning module according to claim 6, characterized in that the vaulted housing wall portion is configured concavely or convexly with respect to the base of the pyramid (1a).
8. Tanning module according to any one of claims 1 to 7, characterized in that a rectangular housing wall area (1c) adjoins the base of the pyramid (1a).
9. Tanning module according to any one of claims 1 to 8, characterized in that the reflector (3) is cupular or tub-shaped.
10. Tanning module according to claim 9, characterized in that the bottom of the cupular or tub-shaped reflector (3) is vaulted.
11. Tanning module according to claim 9, characterized in that the dished or tub-shaped bottom of the reflector (3) is made plane-parallel to the at least one radiation filter (2, 2a, 2b).
12. Tanning module according to any one of claims 1 to 11, characterized in that a perimeter of the reflector (3) parallel to the radiation emitting area describes a circle, an ellipse, a rectangle or a polygon.
13. Tanning module according to claim 12, characterized in that the reflector (3) is formed of facets (3a) and the perimeter of the reflector (3) parallel to the radiation emitting area describes a polygon with twelve sides.
14. Tanning module according to claim 13, characterized in that the reflector (3) has a height of 90mm to 95mm, especially 93.6mm, and the dodecagon has in the plane of

the radiation emitting area a maximum diameter (corner to corner) in the range of 210mm to 230mm, especially of 210mm.

15. Tanning module according to claim 13, characterized in that the reflector (3) has a height ranging from 110mm to 125mm, especially 118.7mm, and the dodecagon has in the plane of the radiation emitting area a maximum diameter (corner to corner) ranging from 170mm to 200mm, especially 184mm.
16. Tanning module according to claim 13, characterized in that the reflector (3) has a height ranging from 75mm to 90mm, especially 83.3mm, and the dodecagon has in the plane of the radiation emitting area a maximum diameter (corner to corner) ranging from 205mm to 235mm, especially 220mm.
17. Tanning module according to any one of claims 1 to 16, characterized in that the housing (1) has at least one air exhaust opening (4) in the area of the pyramid (1a).
18. Tanning module according to claim 17, characterized in that a flange (5) is provided at the at least one air exhaust opening (4).
19. Tanning module according to claim 18, characterized in that an air exhaust hose (6) is connected to the flange (5).
20. Tanning module according to any one of claims 17 to 19, characterized in that a reducing disk is present to reduce the size of the air exhaust opening (4).
21. Tanning module according to any one of claims 17 to 20, characterized in that an air exhaust opening (4) is arranged on each of three sides of the pyramid (1a).
22. Tanning module according to any one of claims 1 to 21, characterized in that at least

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one mounting (7) is disposed externally on the housing (1) for electrical connections (16) or components (15).

23. Tanning module according to any one of claims 1 to 22, characterized in that an intake plate (8) is disposed between housing (1) and reflector (3), in which case the radiation emitting area of the reflector (3) is shifted upward or downward from the plane of the air intake plate (8), at least one intake opening being formed between intake plate (8) and reflector (3), and the intake plate (8) has a cut-out (8a) for the reflector (3), which in vertical projection onto the at least one radiation filter (2, 2a, 2b) has the size of the radiation emitting area of the reflector (3).

24. Tanning module according to any one of claims 1 to 22, characterized in that an intake plate (8) joins the housing (1) and the reflector (3) on all sides in the area of the radiation emitting area of the reflector (3), the intake plate (8) having at least one intake opening (9) and also has a cut-out (8a) for the reflector (3), which in vertical projection onto the at least one radiation filter (2, 2a, 2b) has the size of the radiation emitting area of the reflector (3).

25. Tanning module according to claim 24, characterized in that the intake plate (8) has a rectangular perimeter, that the perimeter of the reflector (3) parallel to the radiation emitting area describes a circle, an ellipse or a polygon, and that the at least one intake opening (9) is disposed in the area of a corner of the intake plate (8).

26. Tanning module according to claim 25, characterized in that four intake openings (9) are formed in the intake plate (8) and that one each of that four intake openings (9) is

disposed in another corner of the intake plate (8).

27. Tanning module according to any one of claims 24 to 26, characterized in that the at least one intake opening (9) is enlarged along the sides of the intake plate (8).
28. Tanning module according to claim 27, characterized in that the intake opening (9) is trapezoidal, the long side of the trapeze facing toward the reflector (3).
29. Tanning module according to claim 28, characterized in that the long side of the trapeze as well as its opposite side are curved.
30. Tanning module according to any one of claims 23 to 29, characterized in that the reflector (3) is fastened to the housing (1) only through the intake plate (8).
31. Tanning module according to any one of claims 1 to 30, characterized in that the at least one radiation filter is releasable from the housing (1) through a swivelling mechanism.
32. Tanning module according to any one of claims 1 to 31, characterized in that the at least one radiation filter (2, 2a, 2b) is of rectangular shape.
33. Tanning module according to claim 32, characterized in that the at least one radiation filter (2, 2a, 2b) has a length and a width ranging from 215mm to 240mm.
34. Tanning module according to claim 33, characterized in that the at least one radiation filter (2, 2a, 2b) has a length of 230mm and a width of 225mm.
35. Tanning module according to any one of claims 1 to 34, characterized in that the at least one radiation filter (2, 2a, 2b) is an interference filter.
36. Tanning module according to any one of claims 1 to 35, characterized in that at least

one air intake opening (10) is present between the at least one radiation filter (2, 2a, 2b) and the housing (1).

37. Tanning module according to any one of claims 1 to 35, characterized in that at least one air intake opening is present in the housing (1) between the at least one radiation filter (2, 2a, 2b) and the reflector (3).

38. Tanning module according to any one of claims 35 to 37, characterized in that a first radiation filter (2a) is present, and plane-parallel thereto a second radiation filter (2b), the second radiation filter (2b) being disposed between the radiation emitting area of the reflector (3) and the first radiation filter (2a), and the first radiation filter (2a) being the interference filter.

39. Tanning module according to claim 38, characterized in that the second radiation filter (2b) is an ultraviolet filter or an infrared filter.

40. Tanning module according to any one of claims 1 to 39, characterized in that to protect the at least one radiation filter (2, 2a, 2b) against breakage at least one touch contact (11) is disposed on the housing, which at the least one radiation filter (2, 2a, 2b).

41. Tanning module according to claim 40, characterized in that the touch contact (11) is guided through the reflector (3) perpendicular to the radiation emitting area of the reflector (3).

42. Tanning module according to claim 40, characterized in that the touch contact (11) is guided through the intake plate (8) perpendicular to the radiation emitting area of the reflector (3).

43. Tanning module according to anyone of claims 1 to 39, characterized in that to indicate breaking of the at least one radiation filter (2, 2a, 2b) at least one touch contact (11) is disposed on the intake plate (8) and rests on the at least one radiation filter (2, 2a, 2b).

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44. Tanning module according to any one of claims 1 to 43, characterized in that a base (12) is provided in the area of the at least one opening in the reflector (3) for the mechanical and electrical connection of the tanning radiator.

45. Tanning module according to any one of claims 23 to 44, characterized in that between the at least one radiation filter (2, 2a, 2b) and the intake plate (8) a cover plate (17) is disposed, which is arranged at a distance from the intake plate (8) and which has a cut-out which in vertical projection onto the at least one radiation filter (2, 2a, 2b) has the size of the radiation emitting area of the reflector (3).




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